BookletChart™

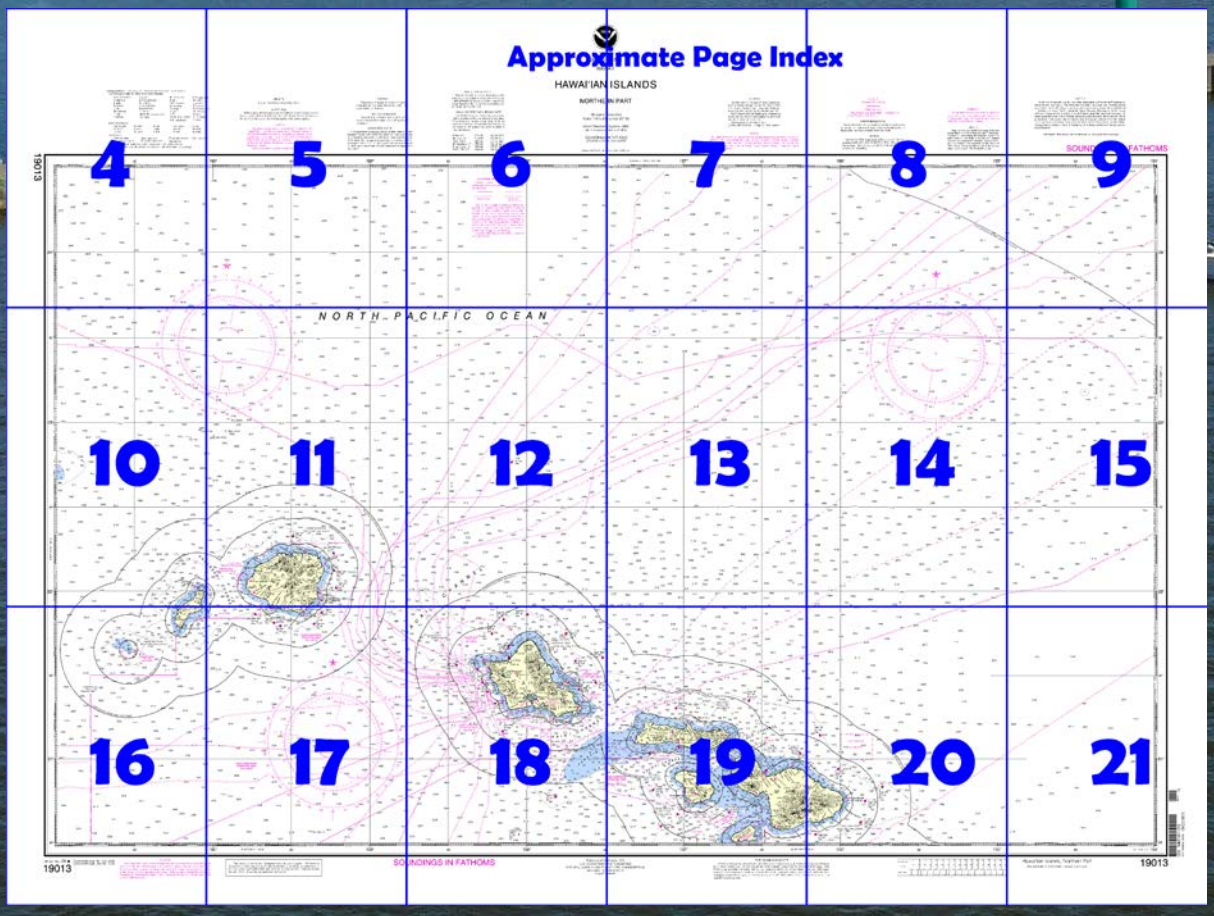
Hawai'ian Islands – Northern Part

NOAA Chart 19013

A reduced-scale NOAA nautical chart for small boaters

When possible, use the full-size NOAA chart for navigation.

- Complete, reduced-scale nautical chart
- Print at home for free
- Convenient size
- Up-to-date with Notices to Mariners
- Compiled by NOAA's Office of Coast Survey, the nation's chartmaker



Published by the
National Oceanic and Atmospheric Administration
National Ocean Service
Office of Coast Survey
www.NauticalCharts.NOAA.gov
888-990-NOAA

What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart™?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

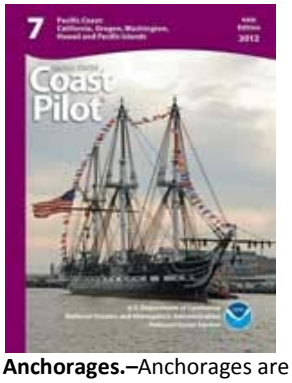
Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at http://www.NauticalCharts.NOAA.gov.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.

For latest Coast Pilot excerpt visit the Office of Coast Survey website at http://www.nauticalcharts.noaa.gov/nsd/coastpilot_w.php?book=7.

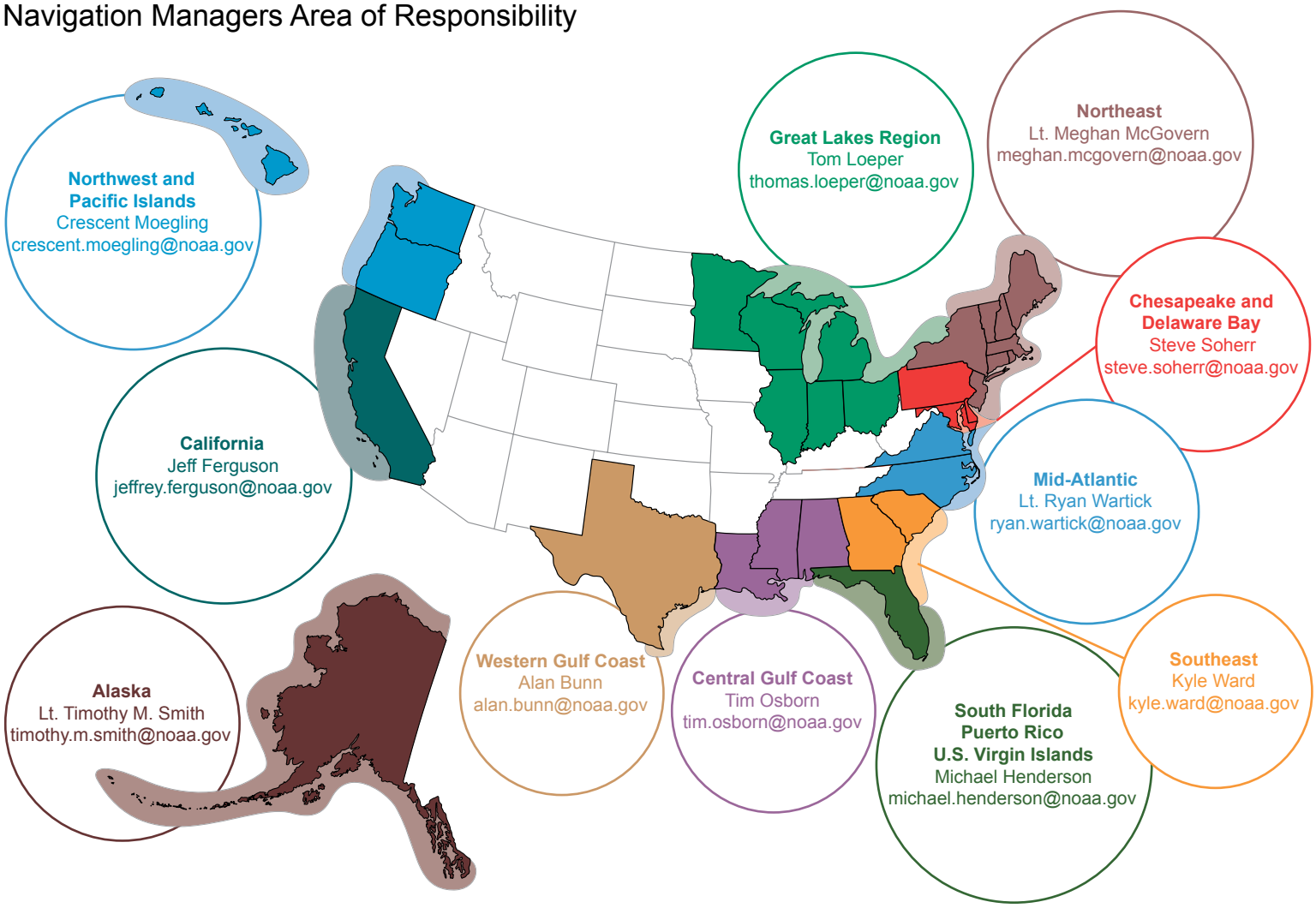


(Selected Excerpts from Coast Pilot)
The **Hawai'ian Islands**, an archipelago, consist of eight large islands, plus many islets, reefs, and shoals, strung out from SE to NW for 1,400 nautical miles in the north-central Pacific Ocean. The archipelago extends from 18°55'N. to 28°25'N., and from 154°49'W. to 178°20'W., straddling the Tropic of Cancer. All the islands of the archipelago, except 2-square-mile Midway, are part of the State of Hawaii.
Anchorages.–Anchorages are numerous except on the N and E sides of the islands where shelter from the trade winds is a major requirement. The anchorages on the S and W sides of the islands are unsafe during kona weather.
Regulated Navigation Area.–A security zone has been established for all waters within 1,000 yards of any U.S. Navy submarine that is operating in the Sector Honolulu Captain of the Port Zone and that is being escorted by the U.S. Coast Guard. (See **165.1 through 165.13** and **165.1412**, chapter 2, for limits and regulations.)
Pilotage, Hawaii, General.–Pilotage is compulsory for all foreign vessels and for U.S. vessels under register in the foreign trade; it is optional for U.S. vessels in the coastwise trade. Hawaii Pilots provide pilotage service to several ports in the islands: Honolulu Harbor, Hilo Harbor, Kahului Harbor, Port Allen Harbor, Nawiliwili Harbor, and Kawaihae Harbor.
Maui, 26 miles NW of Hawaii, has an area of 728 square statute miles and is second in size of the eight large islands. The island is 42 miles long in a NW-SE direction and 23 miles in greatest width. Koolau Gap on the N side, and Kaupo Gap on the SE side, are two large openings in the side of the crater. Puu Kukui, 5,788 feet high, is near the center of the W and smaller part of the island, which is cut up by rugged peaks and deep valleys and gulches.
Anchorages.–Anchorages are numerous on the SW side of Maui; first requirement under ordinary conditions is shelter from the trade winds.
Lanai, 8 miles W across Auau Channel from Maui and the same distance S across Kalohi Channel from Moloka'i, has an area of 141 square statute miles and ranks sixth in size of the eight major islands. Lanai is about 15 miles long in a NW direction and about 10 miles wide near its S end, gradually narrowing toward its NW end. **Lanai City**, the only large community, is in the center of the island.
Moloka'i, 7.5 miles NW across Pailolo Channel from Maui and 8 miles N across Kalohi Channel from Lanai, has an area of 259 square statute miles and ranks fifth in size of the eight major islands. Moloka'i is about 34 miles long in a W direction and about 7 miles wide.
Oahu, 22 miles WNW across Kaiwi Channel from Moloka'i, has an area of 604 square statute miles and is third largest of the eight major islands. O'ahu measures 39 nautical miles SE-NW between Makapu'u and Ka'ena Points and 26 miles S-N between Kalaeloa and Kahuku Point.
Harbors and ports.–The largest harbors on O'ahu are Kane'ohe Bay and Pearl Harbor; the latter is a prohibited area. Small-craft harbors include Maunalua Bay, Honolulu's Ala Wai Boat Harbor and Kewalo Basin, Waianae Harbor, and Haleiwa Small-Boat Harbor in Waialua Bay. The NE coast is exposed to the trade winds during most of the year, and the only small-craft shelter available is in Kane'ohe Bay.
Kauai Channel, NW of O'ahu, is wide, deep, and clear. During the trades the current usually sets W across the channel and divides at Kauai, part following the N side of the island and the other part following the S side. Strong S or SW winds cause the current to set in the opposite direction to that produced by the trades.
Kauai, 63 miles NW across Kauai Channel from O'ahu, has an area of 555 square statute miles and is fourth largest of the eight major islands. Kauai measures 29 nautical miles E-W by 23 miles N-S and slopes from centrally located Kawaikini, a 5,170-foot peak. **Lihue**, the seat of Kauai County, is 2 miles inland from the east-coast port of Nawiliwili.
Harbors and ports.–Nawiliwili, on the E coast, and Port Allen, on the S coast, are the only commercial harbors on Kauai and are the only places that afford shelter in almost all weather. Small craft planning to visit Kauai should carry two good holding anchors, because mooring space is scarce and there are few well-protected anchorages. Advance arrangements with the Kauai District Manager, Harbors Division of the Hawaii Department of Transportation, are advised.

U.S. Coast Guard Rescue Coordination Center
24 hour Regional Contact for Emergencies

RCC Honolulu	Commander 14th CG District Honolulu, HI	(808) 535-3333

Navigation Managers Area of Responsibility

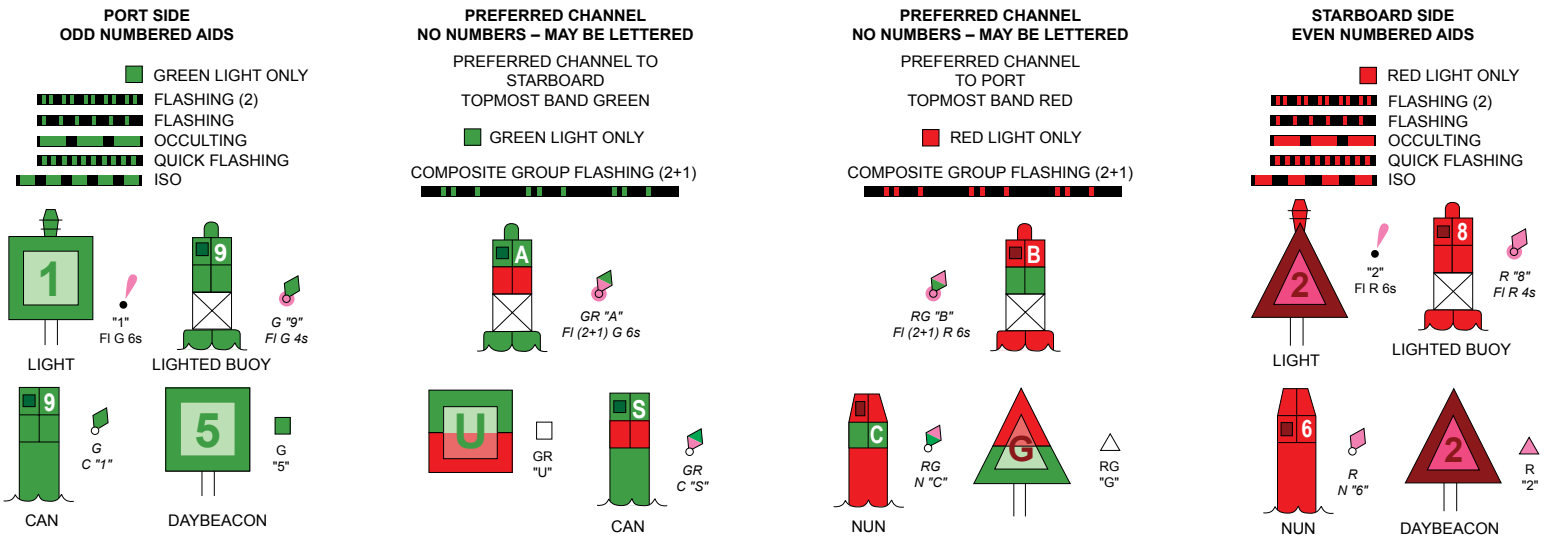


NOAA's navigation managers serve as ambassadors to the maritime community. They help identify navigational challenges facing professional and recreational mariners, and provide NOAA resources and information for safe navigation. For additional information, please visit *nauticalcharts.noaa.gov/service/navmanagers*

To make suggestions or ask questions online, go to *nauticalcharts.noaa.gov/inquiry*.
To report a chart discrepancy, please use *ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx*.

Lateral System As Seen Entering From Seaward

on navigable waters except Western Rivers



For more information on aids to navigation, including those on Western Rivers, please consult the latest USCG Light List for your area. These volumes are available online at *http://www.navcen.uscg.gov*

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)

Aids to Navigation (lights are white unless otherwise indicated):

AERO aeronautical	G green	Mo morse code	R TR radio tower
Al alternating	IQ interrupted quick	N nun	Rot rotating
B black	Iso isophase	OBSC obscured	s seconds
Bn beacon	LT HO lighthouse	Oc occulting	SEC sector
C can	M nautical mile	Or orange	St M statute miles
DIA diaphone	m minutes	Q quick	VQ very quick
F fixed	MICRO TR microwave tower	R red	W white
Fl flashing	Mkr marker	Ra Ref radar reflector	WHIS whistle
		R Bn radiobeacon	Y yellow

Bottom characteristics:

Blds boulders	Co coral	gy gray	Oys oysters	so soft
bk broken	G gravel	h hard	Rk rock	Sh shells
Cy clay	Grs grass	M mud	S sand	sy sticky

Miscellaneous:

AUTH authorized	Obstn obstruction	PD position doubtful	Subm submerged
ED existence doubtful	PA position approximate	Rep reported	

(21) Wreck, rock, obstruction, or shoal swept clear to the depth indicated.

(2) Rocks that cover and uncover, with heights in feet above datum of soundings.

HEIGHTS

Heights in feet above Mean High Water.

AUTHORITIES

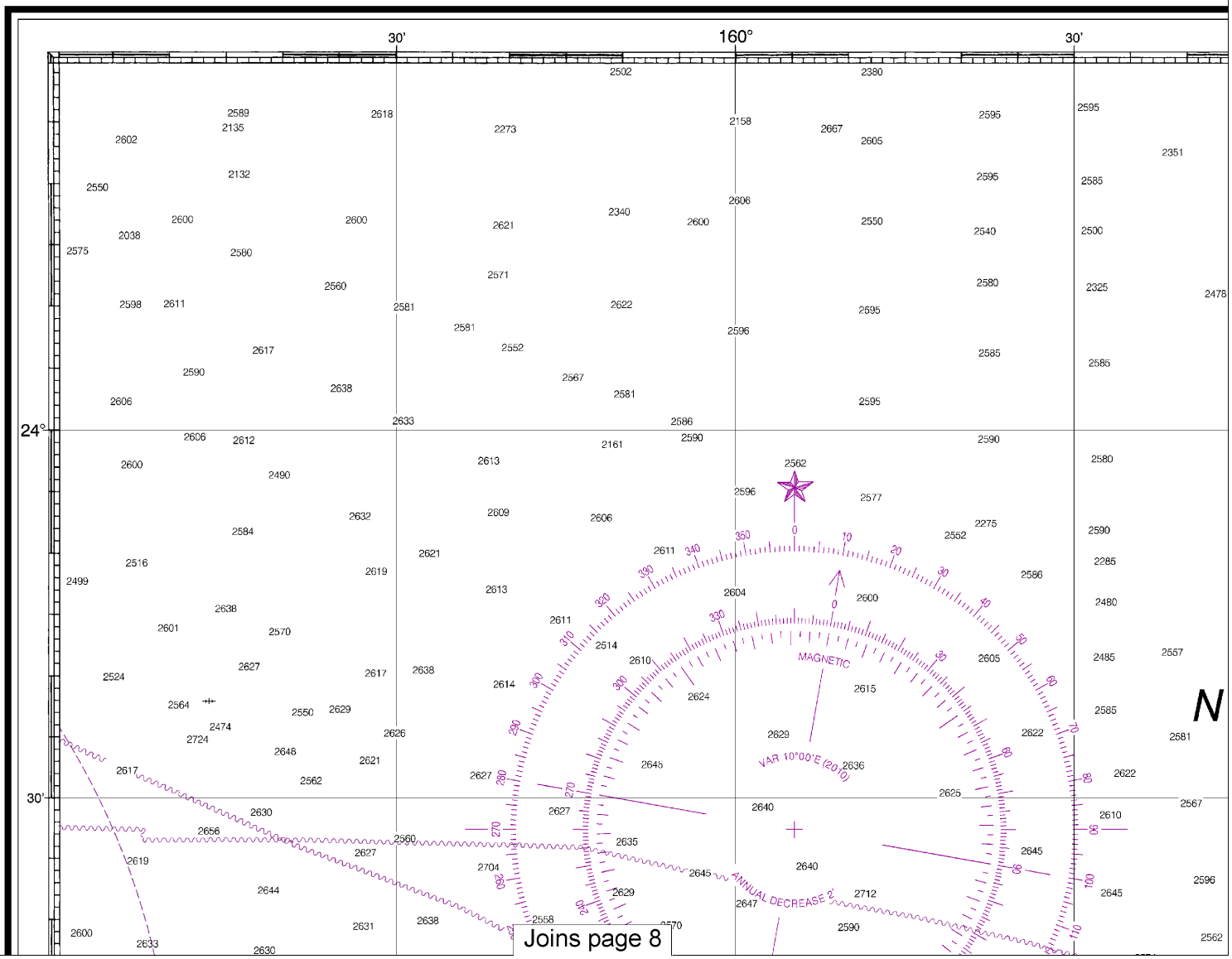
Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the U.S. Coast Guard, Geological Survey, U.S. Navy, and National Geospatial-Intelligence Agency.

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 7. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 14th Coast Guard District in Honolulu, Hawaii or at the Office of the District Engineer, Corps of Engineers in Honolulu, Hawaii.

Refer to charted regulation section numbers.

19013



Joins page 8

4

Note: Chart grid lines are aligned with true north.

THE NATION'S CHARTMAKER S

UNITED STATE

HAWAII

HAWAI'IAN IS

NORTHERN P

Mercator Projecti
Scale 1:675,000 at Lat

World Geodetic Systen
(North American Datum of

SOUNDINGS IN FATH
AT MEAN LOWER LOW W

Formerly C&GS 4180, 1st Ed., Feb. 1948

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

HORIZONTAL DATUM

The horizontal reference datum of this chart is World Geodetic System 1984 (WGS 84), which for charting purposes is considered equivalent to the North American Datum of 1983 (NAD 83). Geographic positions referred to the Old Hawaiian Datum must be corrected an average of 11.410" southward and 10.002" eastward to agree with this chart.

POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

NOAA WEATHER RADIO BROADCASTS

The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Kokee, HI	KBA-99	162.400 MHz
Mt Kaala, HI	KBA-99	162.550 MHz
Hawaii Kai, HI	KBA-99	162.400 MHz
Mt Haleakala, HI	KBA-99	162.400 MHz
Kulani Cone, HI	KBA-99	162.550 MHz
South Point, HI	KBA-99	162.550 MHz

159° 30' 158° 30'

NOTE E
SHIP REPORTING SYSTEM

The following vessels entering or departing any U.S. port of place and in transit through the reporting area are required to report into the System: all vessels 300 gross tons or greater and all vessels in the event of a developing emergency. The following vessels in transit through the reporting area should report into the System: all vessels 300 gross tons or greater, fishing vessels, and all vessels in the event of a developing emergency. See IMO SN.1, Circ. 273. Information concerning the Ship Reporting System is also published in the U.S. Coast Pilot 7, Chapters 2 and 14, and updated through Notices to Mariners. Information may also be obtained at the Office of the Commander, 14th Coast Guard District in Honolulu, or at the Office of the District Engineer, Corps of Engineers, in Honolulu.

CAUTION
SUBMARINE PIPELINES AND CABLES

Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:

Pipeline Area *Cable Area*

Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling.

Covered wells may be marked by lighted or unlighted buoys.

I O R T H P A C I F I C O C E A N

Joins page 6

Joins page 9

This BookletChart was reduced to 70% of the original chart scale. The new scale is 1:964285. Barscales have also been reduced and are accurate when used to measure distances in this BookletChart.

E NATION'S CHARTMAKER SINCE 1807

UNITED STATES

HAWAII

‘IAN ISLANDS

NORTHERN PART

Mercator Projection
Scale 1:675,000 at Lat 20° 30'

World Geodetic System 1984
(North American Datum of 1983)

SOUNDINGS IN FATHOMS
AT MEAN LOWER LOW WATER

ormerly C&GS 4180, 1st Ed., Feb. 1948 KAPP 2766

CAUTION

Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117.

Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus:
⊙(Accurate location) o(Approximate location)

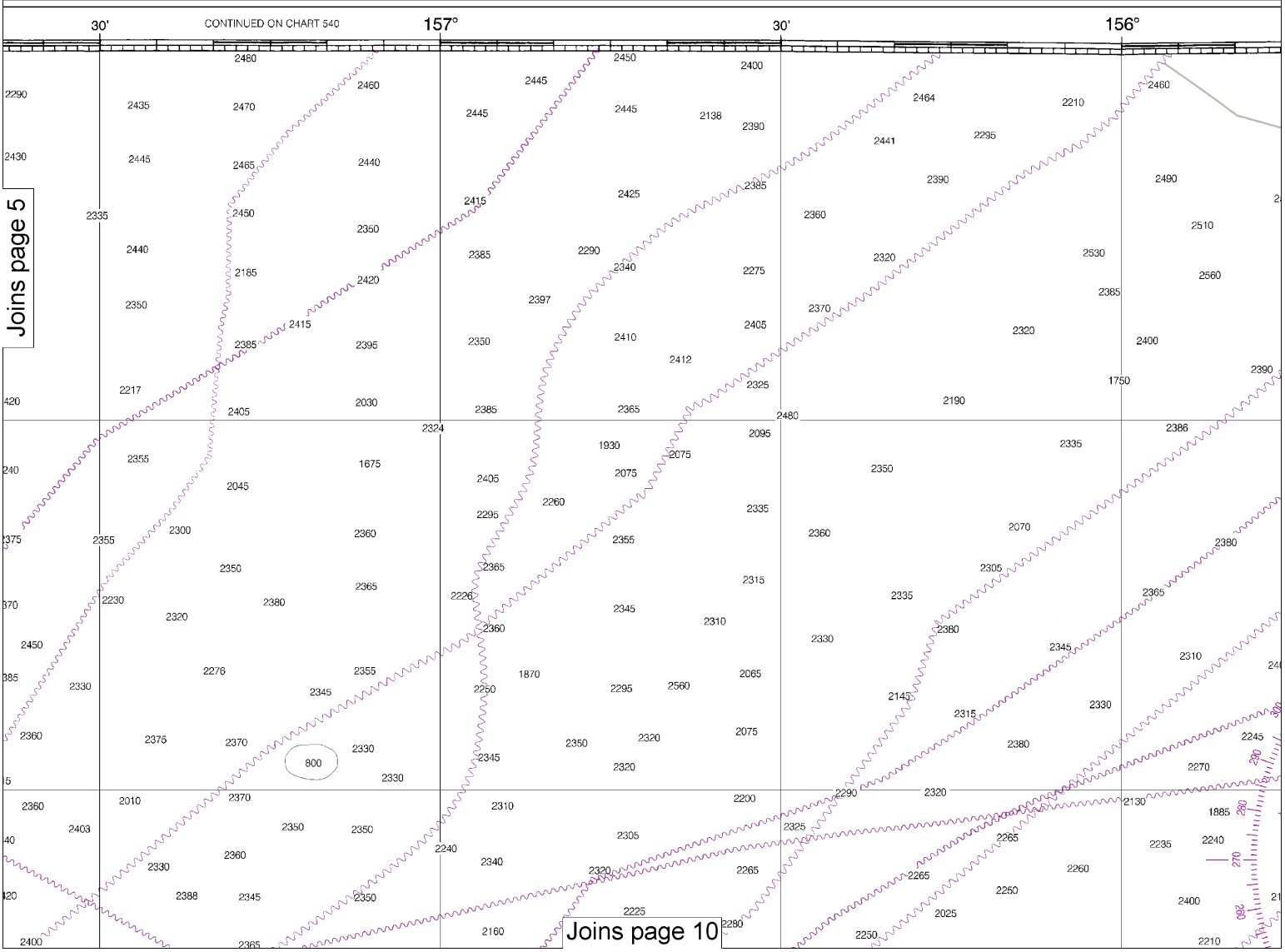
NOTE B

Boundary limits of Submerged Submarine Operating Areas are shown by a solid magenta line. As submarines may be submerged in these areas, vessels should proceed with caution. During torpedo practice firing, all vessels are cautioned to keep well clear of Naval Target Vessels flying a large red flag at the highest masthead.

NOTE C
PROHIBITED
Pearl Harb
Kāne'ohe
Regulations are publis
United States Coast Pilot 7

RADAR REFLE
Radar reflectors have been pla
to navigation. Individual radar r
these aids has been omitted fro

NOTE
Submarine Fish Aggregati
contained within this area at dep
the surface. Mariners are advi
entering or transitting.



Note: Chart grid lines are aligned with true north.

: C
D AREAS
arbor
e Bay
lished in Chapter 14.
7.

LECTORS
laced on many floating aids
r reflector identification on
rom this chart.

E D
ting Devices (FADS) are
epths of 40 to 100 feet below
lvised to use caution when

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

NOTE S

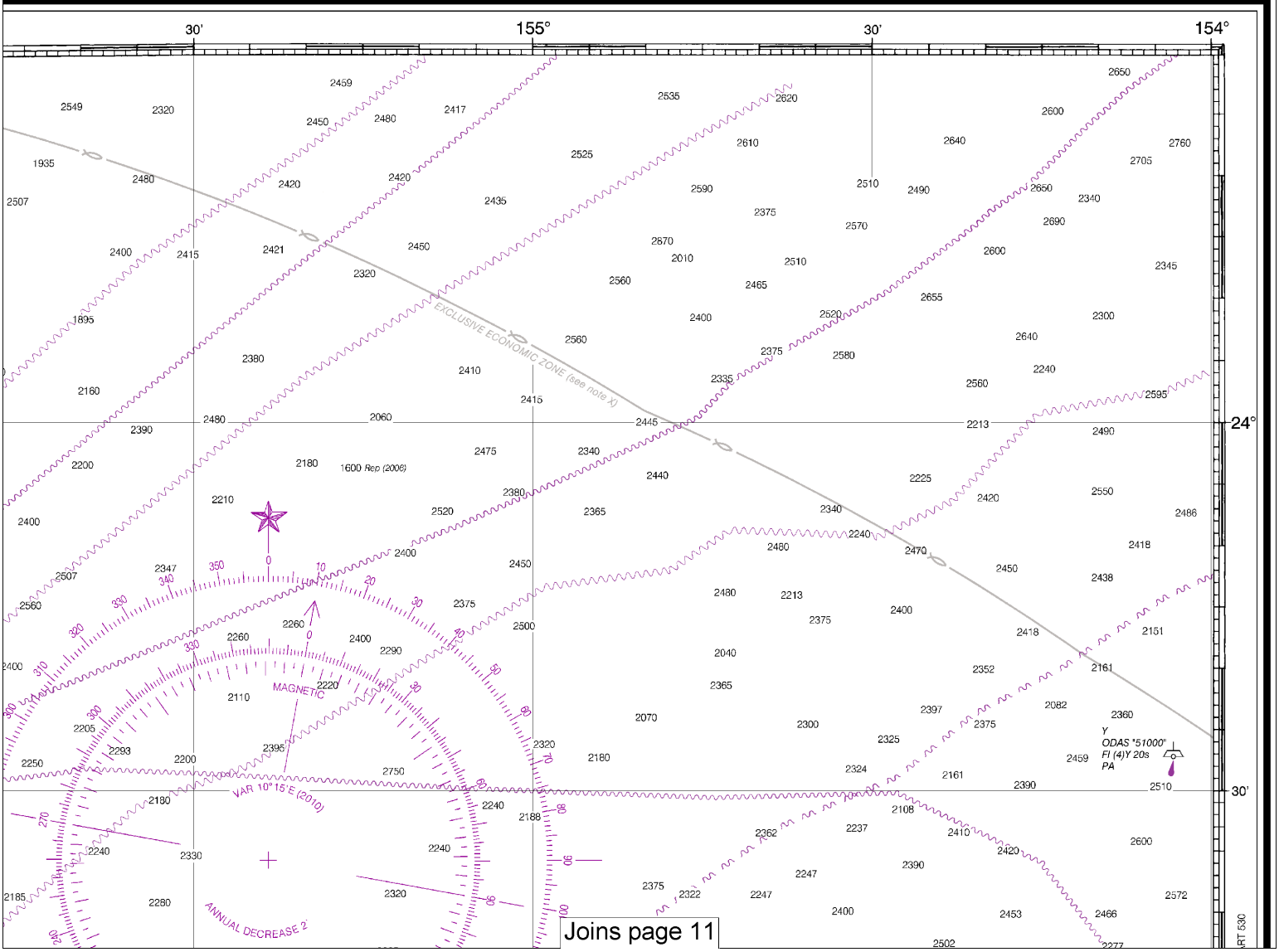
Regulations for Ocean Dumping Sites are contained in 40 CFR, Parts 220-229. Additional information concerning the regulations and requirements for use of the sites may be obtained from the Environmental Protection Agency (EPA). See U.S. Coast Pilots appendix for addresses of EPA offices. Dumping subsequent to the survey dates may have reduced the depths shown.

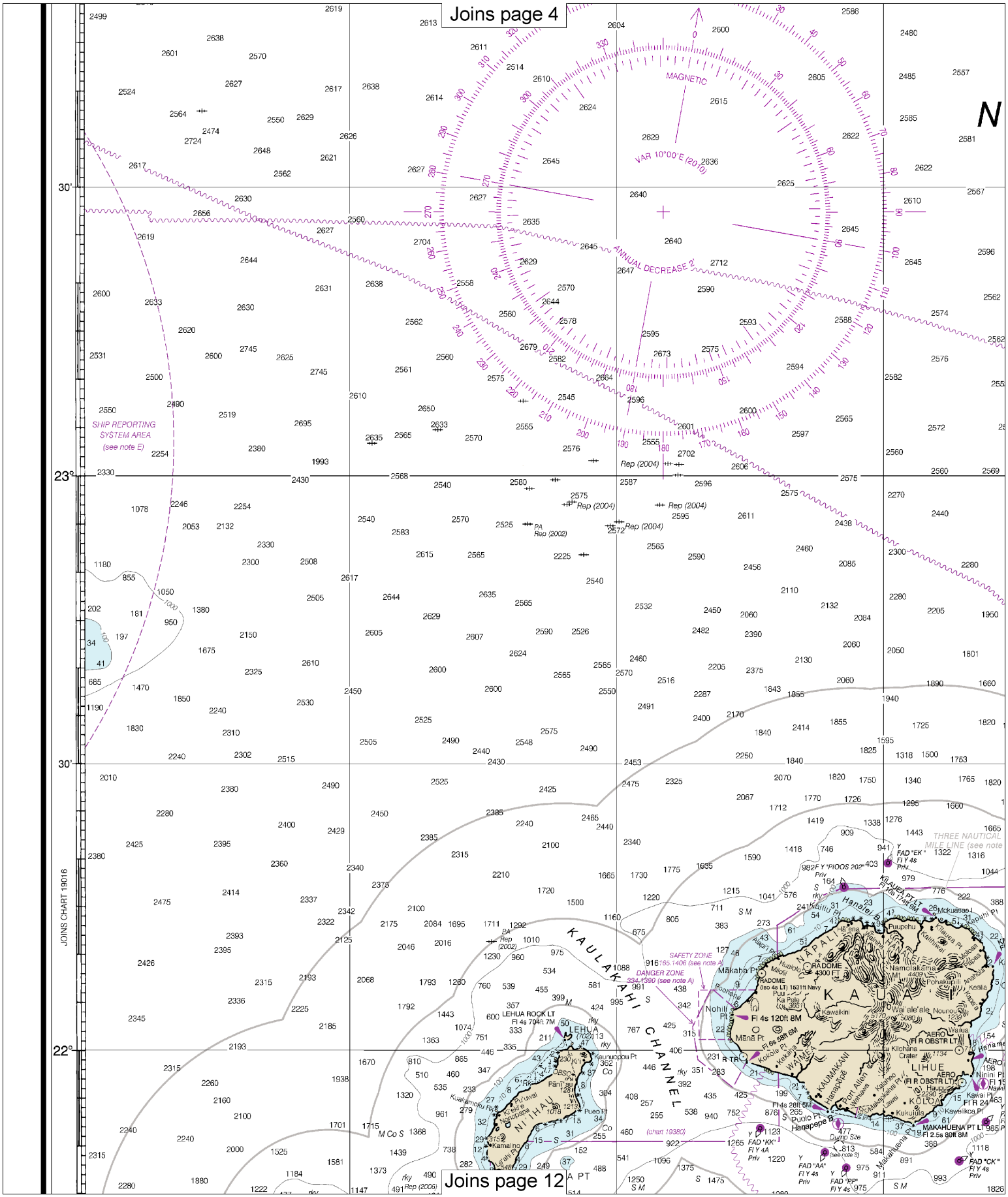
NOTE X

Within the 12-nautical mile Territorial Sea, established by Presidential Proclamation, some Federal laws apply. The Three Nautical Mile Line, previously identified as the outer limit of the territorial sea, is retained as it continues to depict the jurisdictional limit of the other laws. The 9-nautical mile Natural Resource Boundary off the Gulf coast of Florida, Texas, and Puerto Rico, and the Three Nautical Mile Line elsewhere remain in most cases the inner limit of Federal fisheries jurisdiction and the outer limit of the jurisdiction of the states. The 24-nautical mile Contiguous Zone and the 200-nautical mile Exclusive Economic Zone were established by Presidential Proclamation. Unless fixed by treaty or the U.S. Supreme Court, these maritime limits are subject to modification.

Additional information can be obtained at nauticalcharts.noaa.gov.

SOUNDINGS IN FATHOMS





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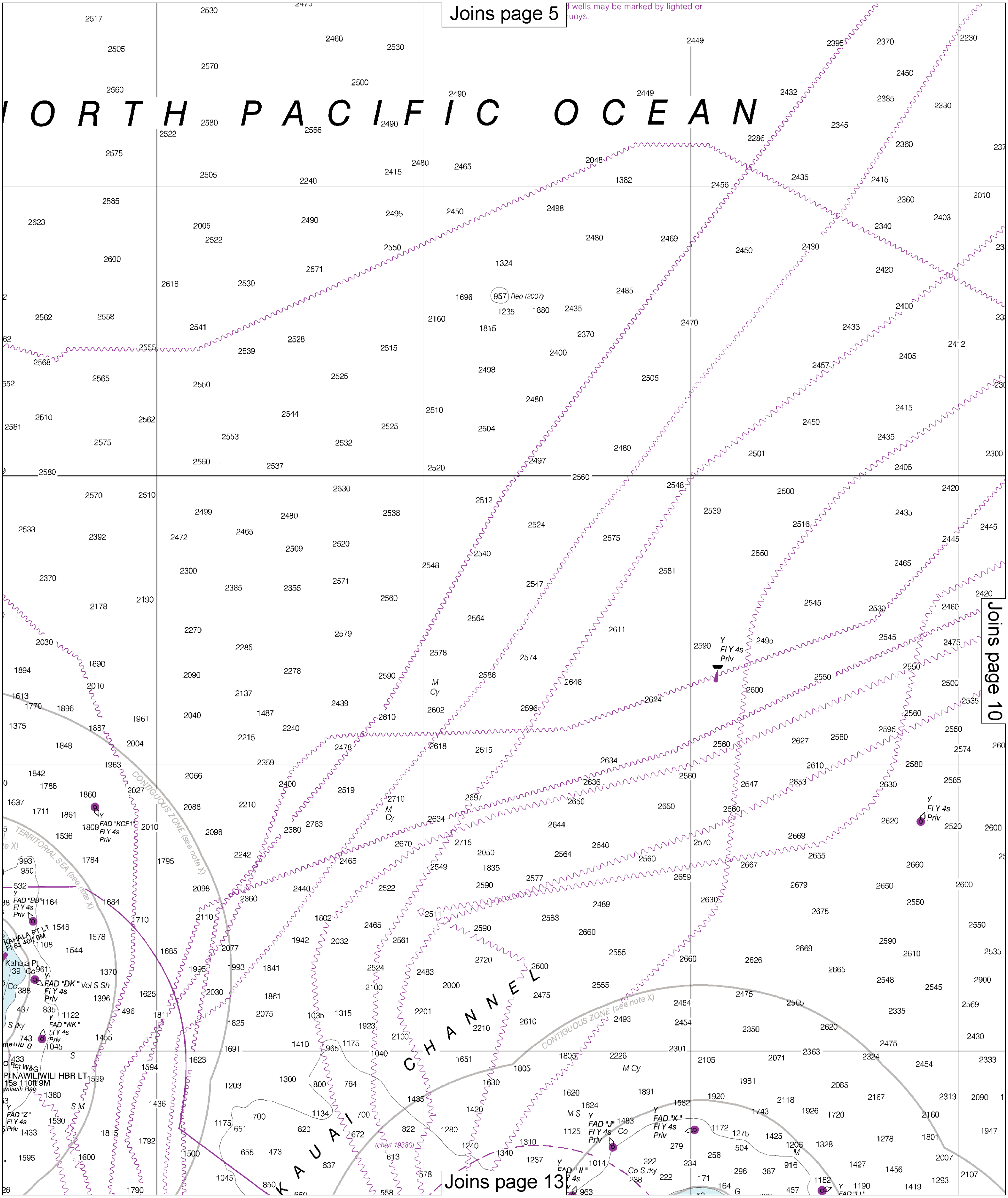
Note: Chart grid lines are aligned with true north.


Joins page 5
Joins page 10
Joins page 13
NORTH PACIFIC OCEAN
KAUAI CHANNEL
CONTIGUOUS ZONE (see note X)
TERRITORIAL SEA (see note X)
wells may be marked by lighted or
buoys.
957 Rep (2007)
Y
Fl Y 4s
Priv
FAD "KCF1"
Fl Y 4s
Priv
FAD "BB"
Fl Y 4s
Priv
KAHALA PT LT
Fl 6s 40ft 9M
Kahala Pt
FAD "DK"
Fl Y 4s
Priv
Vol S Sh
FAD "WK"
Fl Y 4s
Priv
S rky
NAWILIWILI HBR LT
15s 110ft 9M
Nawiliwili Bay
FAD "Z"
Fl Y 4s
Priv
FAD "J"
Fl Y 4s
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FAD "X"
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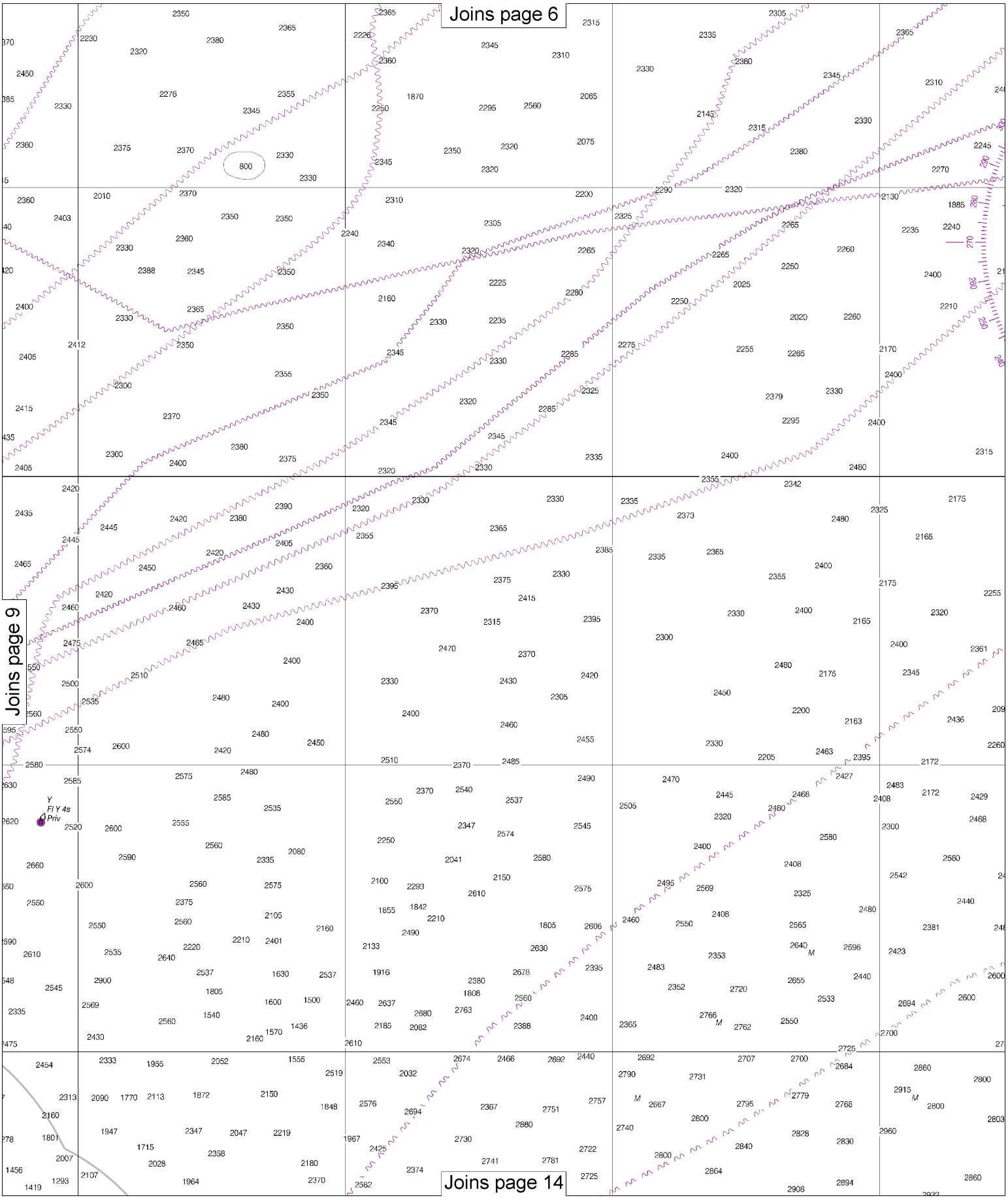
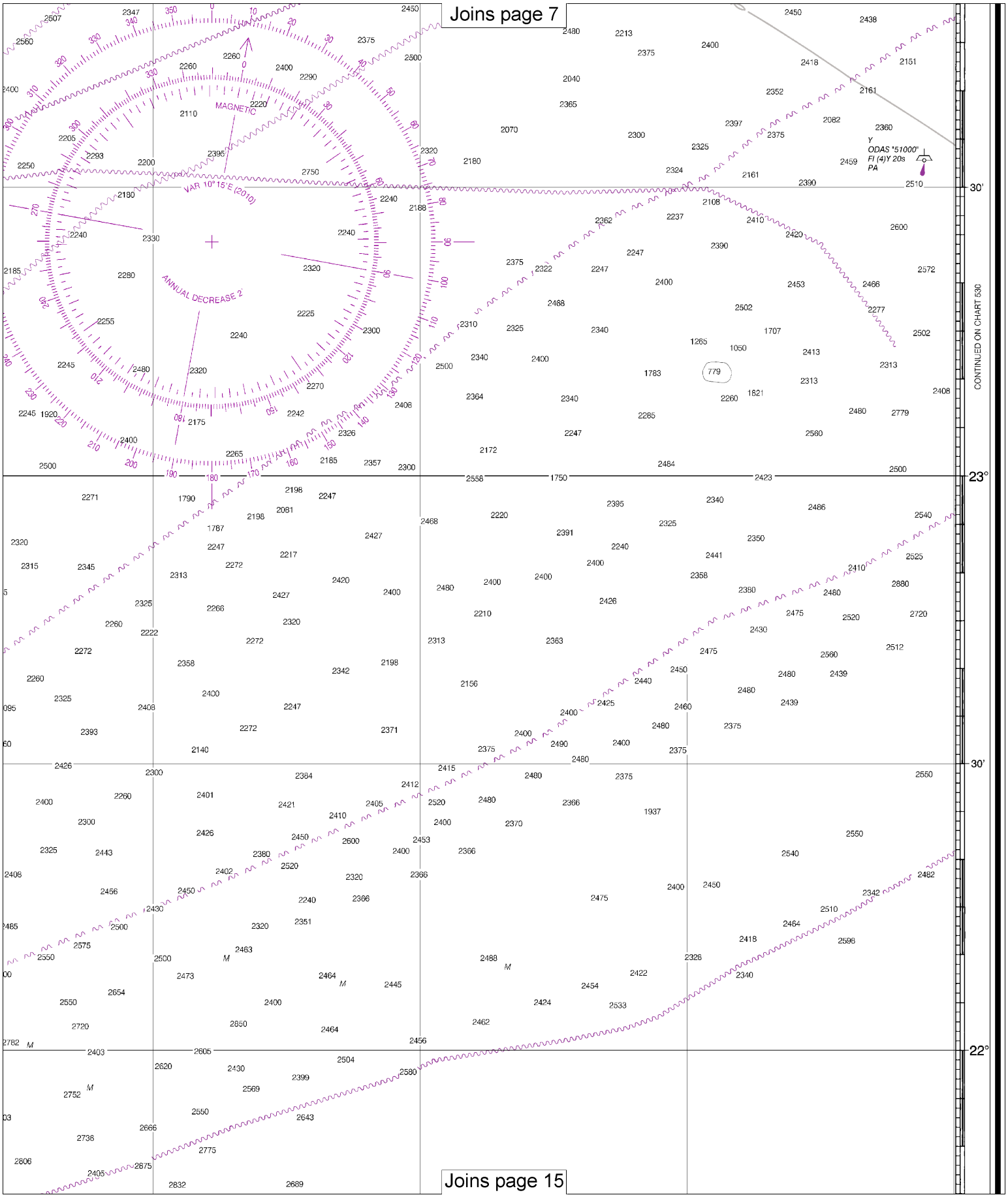
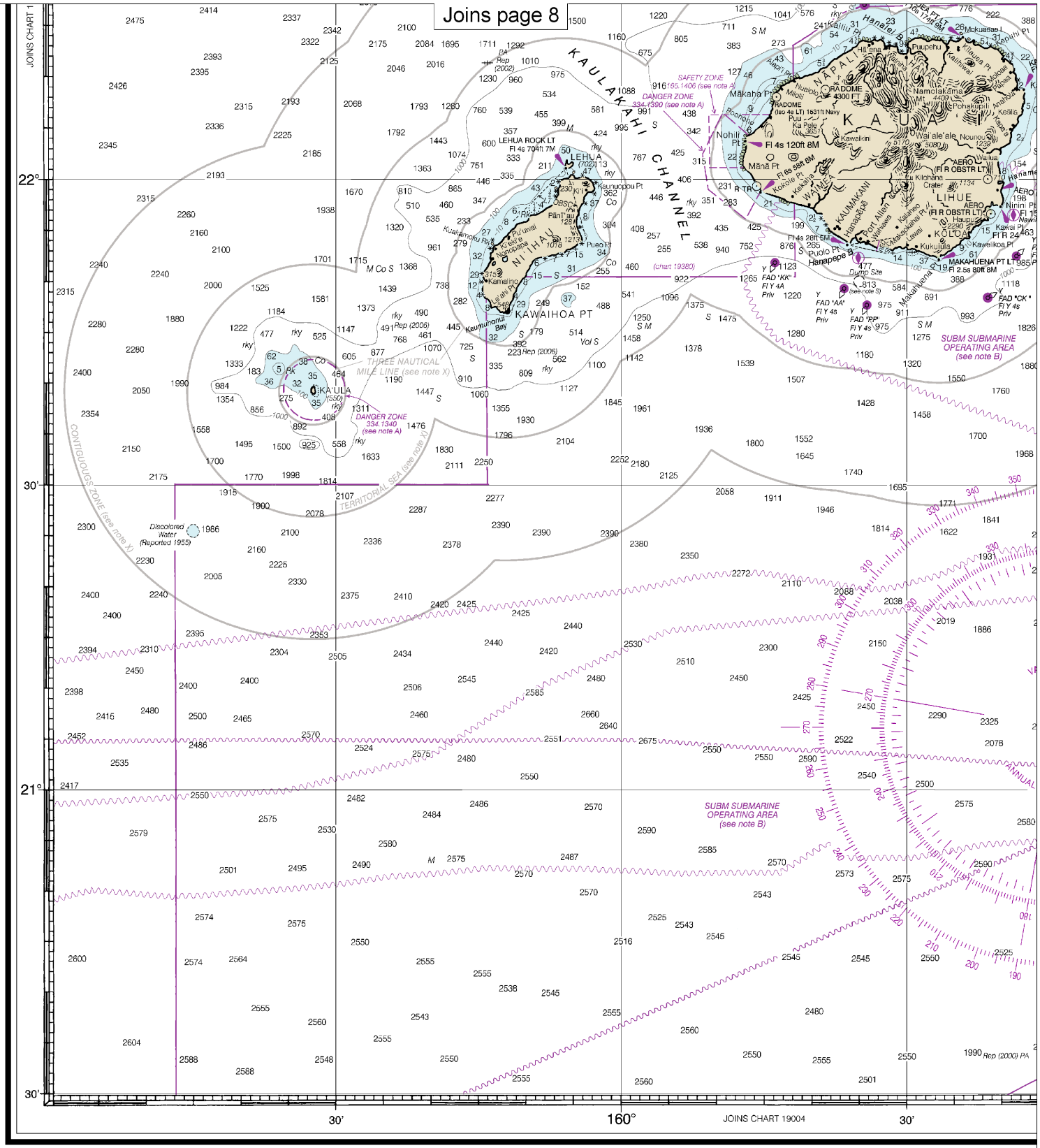
Priv
FAD "II"
FAD "U"
M Cy
Co S rky
(chart 19380)



Note: Chart grid lines are aligned with true north.


Joins page 7
VAR 10° 15'E (2010)
ANNUAL DECREASE 2'
MAGNETIC
ODAS *51000*
Fl (4)Y 20s
PA
CONTINUED ON CHART 536
30'
23°
30'
22°
Joins page 15



CAUTION

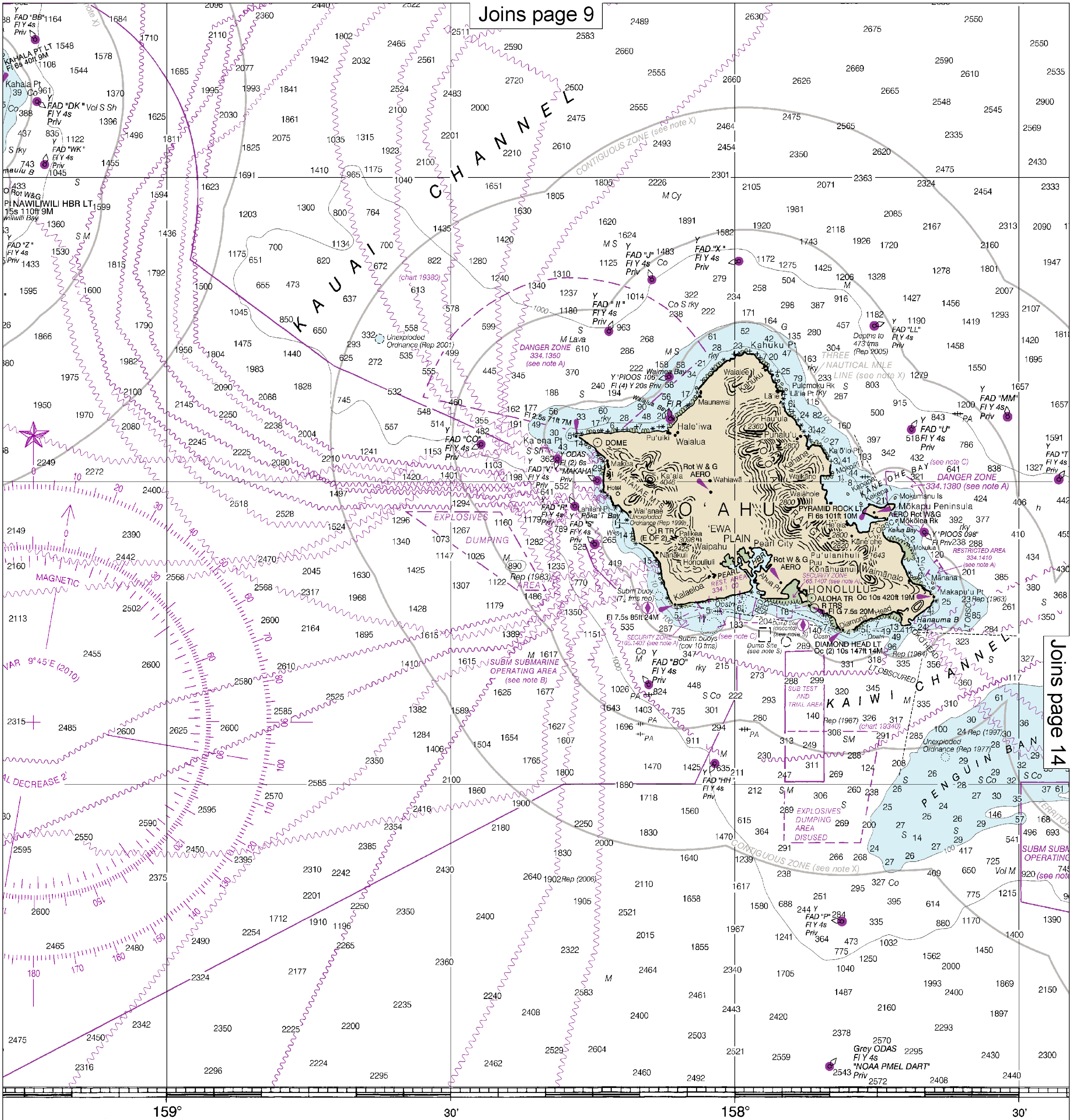
This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at nauticalcharts.noaa.gov.

NOAA encourages users to submit inquiries, discrepancies or comments about this chart at http://www.nauticalcharts.noaa.gov/staff/contact.htm.

19013

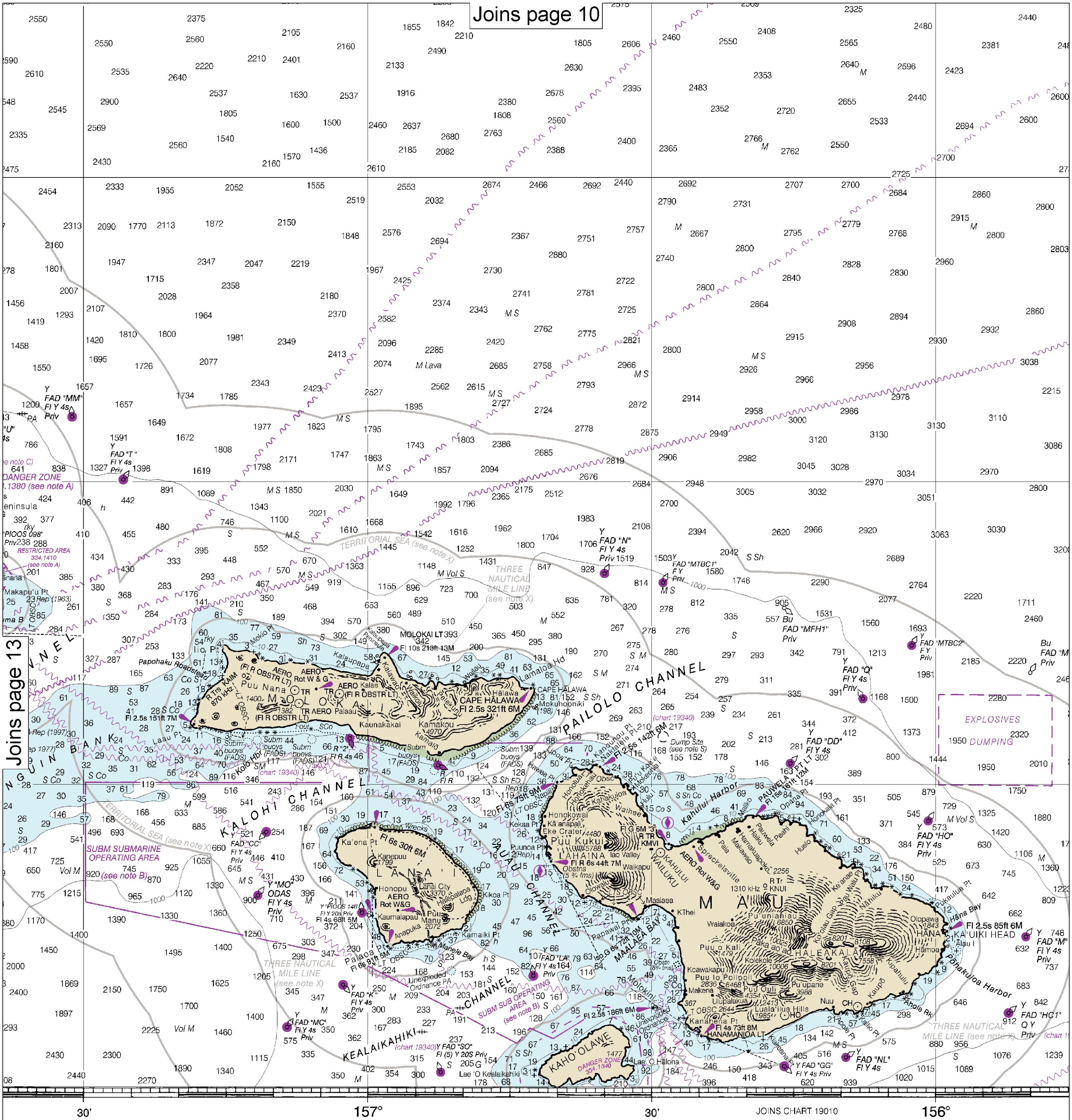
19th Ed., Oct. 2010. Last Correction: 12/2/2016. Cleared through:
LNM: 4816 (11/29/2016), NM: 5016 (12/10/2016)

Note: Chart grid lines are aligned with true north.



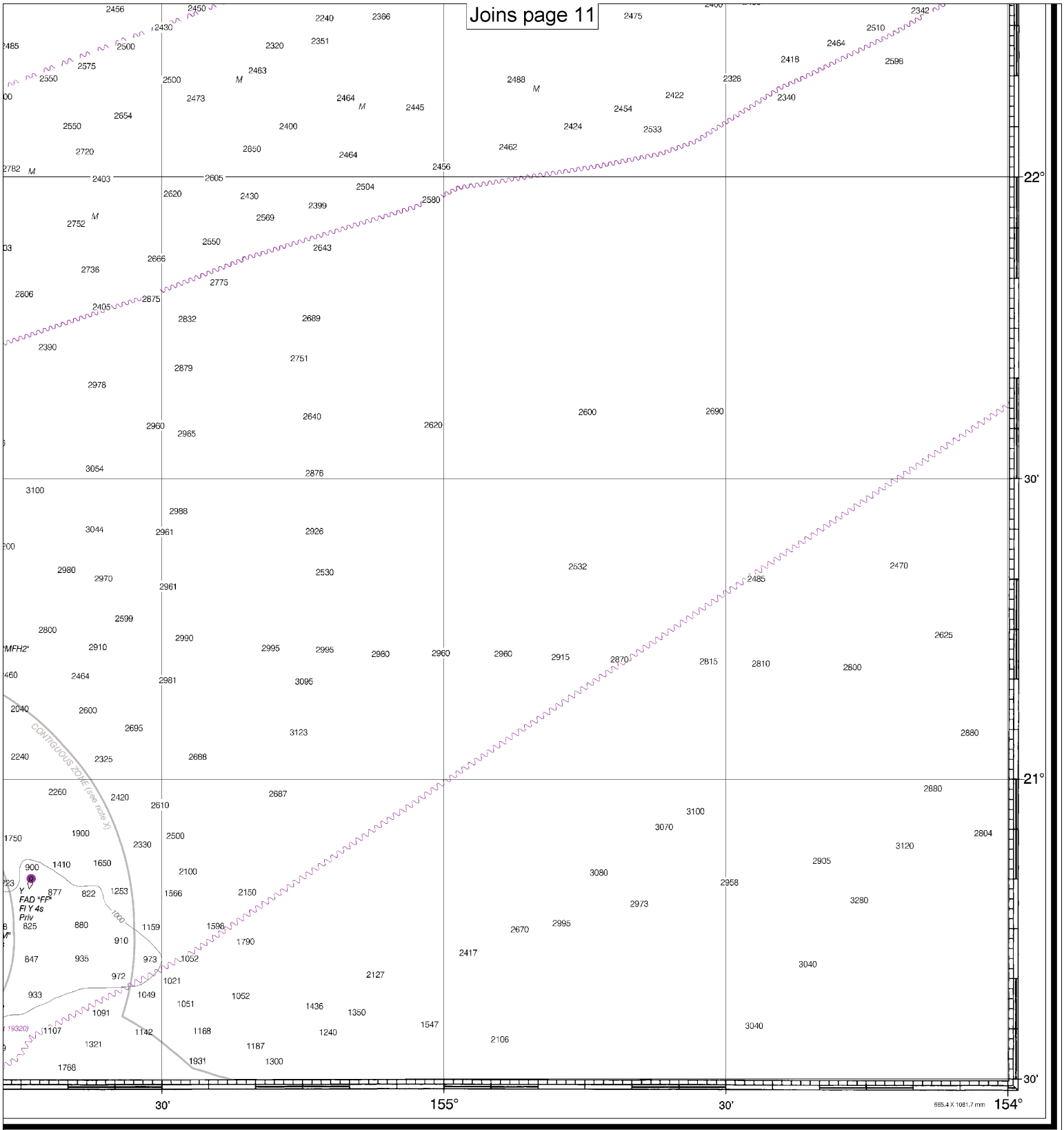
SOUNDINGS IN FATHOMS

Published at Washington,
U.S. DEPARTMENT OF CO
NATIONAL OCEANIC AND ATMOSPHER
NATIONAL OCEAN SERV
COAST SURVEY



Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

Note: Chart grid lines are aligned with true north.



FATHOMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
FEET	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	
METERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Hawai'ian Islands, Northern Part

SOUNDINGS IN FATHOMS - SCALE 1:675,000

19013

EMERGENCY INFORMATION

VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.
Channel 9 – Communications between boats and ship-to-coast.
Channel 13 – Navigation purposes at bridges, locks, and harbors.
Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other vessels. Contact the other vessel, agree to another channel, and then switch.
Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.
Channels 68, 69, 71, 72 and 78A – Recreational boat channels.

Getting and Giving Help — Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.

Distress Call Procedures

- Make sure radio is on.
- Select Channel 16.
- Press/Hold the transmit button.
- Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
- Release transmit button.
- Wait for 10 seconds — If no response Repeat MAYDAY call.

HAVE ALL PERSONS PUT ON LIFE JACKETS!

All Hazards NOAA Weather Radio NOAA's National Weather Service

NOAA Weather Radio All Hazards (NWR) is a nationwide network of radio stations broadcasting continuous weather information directly from the nearest National Weather Service office. NWR broadcasts official Weather Service warnings, watches, forecasts and other hazard information 24 hours a day, 7 days a week.
http://www.nws.noaa.gov/nwr/

Quick References

Nautical chart related products and information	—	**http://www.nauticalcharts.noaa.gov**
Interactive chart catalog	—	**http://www.charts.noaa.gov/InteractiveCatalog/nrnc.shtml**
Report a chart discrepancy	—	**http://ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx**
Chart and chart related inquiries and comments	—	**http://ocsdata.ncd.noaa.gov/idrs/inquiry.aspx?frompage=ContactUs**
Chart updates (LNM and NM corrections)	—	**http://www.nauticalcharts.noaa.gov/mcd/updates/LNM_NM.html**
Coast Pilot online	—	**http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm**
Tides and Currents	—	**http://tidesandcurrents.noaa.gov**
Marine Forecasts	—	**http://www.nws.noaa.gov/om/marine/home.htm**
National Data Buoy Center	—	**http://www.ndbc.noaa.gov/**
NowCoast web portal for coastal conditions	—	**http://www.nowcoast.noaa.gov/**
National Weather Service	—	**http://www.weather.gov/**
National Hurrican Center	—	**http://www.nhc.noaa.gov/**
Pacific Tsunami Warning Center	—	**http://ptwc.weather.gov/**
Contact Us	—	**http://www.nauticalcharts.noaa.gov/staff/contact.htm**

twitter —— For the latest news from Coast Survey, follow **@NOAAcharts**

This Booklet chart has been designed for duplex printing (printed on front and back of one sheet). If a duplex option is not available on your printer, you may print each sheet and arrange them back-to-back to allow for the proper layout when viewing.

NOAA's Office of Coast Survey The Nation's Chartmaker